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APPLICATION NO.	Fii	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/814,233	04/01/2004		Bo-Cun Chen	SUND 509	5363
23995	7590	07/07/2006		EXAMINER	
RABIN & Berdo, PC 1101 14TH STREET, NW				GITOMER, RALPH J	
SUITE 500				ART UNIT	PAPER NUMBER
WASHINGT	ON, DC	20005	1655		

DATE MAILED: 07/07/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Comments	10/814,233	CHEN ET AL.					
Office Action Summary	Examiner	Art Unit					
	Ralph Gitomer	1655					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 01 Ap	oril 2004						
	action is non-final.						
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-14</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcti	ion is required if the drawing(s) is obj	jected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau							
* See the attached detailed Office action for a list	of the certified copies not receive	ed.					
Attachment(s)	_						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 		ate Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:						

Foreign priority papers, unribboned, have been received 4/1/04 and no foreign search report is found in this file. Priority is claimed to 8/14/03.

The claimed invention appears to be a two part method where microorganisms in water are concentrated on a filter and stained with KMnO4 to make them visible. It is well known that KMnO4 stains cells brown which was an issue when it was frequently used for treating skin conditions such as poison ivy leaving lasting brown stains on everything it contacted including skin. Concentrating cells by filtering is old.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

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Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of each of Pahuski, Fleming, and Roth in view of Levenberg.

Pahuski (5,587,286) entitled "Methods and Kits for Detection of Cells in Food Materials" teaches in column 4 lines 37-53, concentrating cellular materials isolated from materials of biological origin for further analyses for undesirable contamination such as employing microscopic examination following use of dyes or stains to render observable cells to be detected. In column 5 first paragraph, the method may be used as a pretreatment method including filtration.

Fleming (US 2002/0055134 A1) entitled "Method and Apparatus for Viable and Nonviable Prokaryotic and Eukaryotic Cell Quantitation" teaches in paragraph 8, samples are filtered through a membrane filter that traps the cells to be counted, dye is applied and cells counted. In paragraph 48 cell determination may be made by using dyes or stains.

Roth (6,699,685) entitled "Method, Test Media and Chromogenic Compounds for Identifying and Differentiating General Coliforms and E. coli Bacteria" teaches in column 1 last paragraph, a membrane filter method where micropore filters are used so that bacteria are retained on the surface of the filter. The filter is then placed on the surface of a medium, incubated, and the bacterial colonies are counted and evaluated.

The claims differ from the above references in that they specify the stain is potassium permanganate.

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Levenberg (US 2005/0031598) entitled "Engineering 3D Tissue Structures Using Differentiating Embryonic Stem Cells" teaches in paragraph 108, staining cells with potassium permanganate.

It would have been obvious to one of ordinary skill in this art at the time the invention was made to stain the cells of the primary references with potassium permanganate as taught by Levenberg because the primary references teach dyes and stains in general and to select any known dye or stain, such as potassium permanganate as taught by Levenberg with the expected result would have been obvious. No unexpected results are taught or claimed by the selection of potassium permanganate.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Each of the following applies in all occurrences.

There are many instances of lack of antecedent basis in the claims, for example in claim 1 line 1, "the presence", line 2, "the step". Claim 1 is a method claim but the claim is incomplete because the only method step is staining which would not perform the preamble function. Standard methods steps may include contacting, determining,

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correlating. In claim 2 "bio-membrane" is not a term of art and is not understood in context. In claim 2 "cultivating" is queried and may be intended to be culturing or growing. In claim 2 "readable microorganisms" is not understood. In claim 3 "the pore" lacks antecedent basis. In claim 8 "time period" is awkward.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sostiaric (Ark Higijenu) teaches staining polluted water with KMnO4.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ralph Gitomer whose telephone number is (571) 272-0916. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Terry McKelvey can be reached on (571) 272-0775. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ralph Gitomer Primary Examiner Art Unit 1655

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RALPH GITOMER PRIMARY EXAMINER GROUP 1200